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Education

PhD in Chemistry (Imperial College London)
Master of Science (Chemistry) (UKM)
Bachelor of Science (Hons) Applied Chemistry (UiTM)
Diploma in Industrial Chemistry (UiTM)
Diploma Imperial College London

Grant Secured

(Ref: FRGS/1/2014/SG01/UITM/02/4)

Modified Synthesis of Intercalated Flufenamic Acid and Fenoprofen Into Layered Double Hydroxides for The Formation of A New Controlled Release Anti-Inflammatory Drug
(1/7/2014-31/12/2016)

(Ref: RACER/1/2019/STG07/UITM//6)

Molecular and nanoscale catalyst derived from silica and palladium waste
(1/9/2019-30/11/2021)

DANA RIF

Electrocatalytic Oxidation of Methanol at Doped Ni-coated Titanium Mesh Electrodes in Alkaline Medium
(1/12/2012-30/11/2014)

ERGS

Influence of catalyst in the upgrading of bio-gasoline derived from combinational pyrolysis of mixture of sewage sludge and jathropa

Research experience

PhD degree internship

Supervisors: Dr James Wilton-Ely
Dissertation title: " Multimetallic Compounds and Nanoparticles Functionalised with Transitional Metal Units for Application in Catalysis".

Master's degree internship

Supervisors: Prof. Dr Rozali Othman and Prof. Dr. Talib Latif
Dissertation title: "Possible sources of atmospheric surfactant and it's relationship with Humic Like Substances (HULIS)"

Bachelor's degree internship

Supervisors: Dr Hamizah binti Mohd Zaki

Dissertation title: "Performances of Hastelloy C-2000 Electrodes in Production of Hydrogen at Different Sea Water Salinity"

Diploma's degree internship

Supervisors : Dr Maryam Husin

Dissertation title: "Determination of caffeine in green tea"

Publication

Khairil A Jantan, Kuang Wen Chan, Laura Melis, Andrew JP White, Luciano Marchiò, Paola Deplano, Angela Serpe, James DET Wilton-Ely., 2019. **From Recovered Palladium to Molecular and Nanoscale Catalysts**. *ACS Sustainable Chemistry & Engineering*, 7(14), pp. 12389-12398

Khairil A Jantan, James M McArdle, Lorenzo Mognon, Valentina Fiorini, Luke A Wilkinson, Andrew JP White, Stefano Stagni, Nicholas J Long, James DET Wilton-Ely., 2019. **Heteromultimetallic compounds based on polyfunctional carboxylate linkers**. *New Journal of Chemistry*, 43(7), pp. 3199-3207

Nor Azean Nadhirah Mohamed Sani, Nurul Aqilla Mazlan, Ahmad Husaini Mohamed , Kavirajaa Pandian Sambasevam, **Khairil Anuar Jantan**, Muggundha Raoov Ramachandran and Jamil Mohamed Sapari., 2018. **Removal of 2,4-dinitrophenol (2,4-DNP) by using magnetic nanoparticles (MNPs) coated with polypyrrole (PPy)**. *IOP Conference Series: Materials Science and Engineering*, 458, pp. 1-8.

Khairil A Jantan, Chuek Yee Kwok, Kuang Wen Chan, Luciano Marchiò, Andrew JP White, Paola Deplano, Angela Serpe, James DET Wilton-Ely., 2017. **From recovered metal waste to high-performance palladium catalysts**. *Green Chemistry*, 19(24), pp. 5846-5853.

Anita Toscani, **Khairil A Jantan**, Jubeda B Hena, Jonathan A Robson, Emily J Parmenter, Valentina Fiorini, Andrew JP White, Stefano Stagni, James DET Wilton-Ely., 2017. **The stepwise generation of multimetallic complexes based on a vinylbipyridine linkage and their photophysical properties**. *Dalton Transactions*. 46 (17), pp. 5558-5570.

Jonathan A Robson, Ferran Gonzalez de Rivera, **Khairil A Jantan**, Margot N Wenzel, Andrew JP White, Oriol Rossell, James DET Wilton-Ely., 2016. **Bifunctional chalcogen linkers for the stepwise generation of multimetallic assemblies and functionalized nanoparticles.**, *Inorganic Chemistry*, 55(24), pp. 12982-12996.